

	High Resolution Core 1B																		
	Collected April 11th, 2011 - Processed April 12th, 2011																		
	Location #	Collection Time	Processing Time																
	1 (by Gazebo)	10:45 AM	12:30 AM																
Sample Name	Slice #	Top (cm)	Bottom (cm)	Notes															
CDEOU4-110412-HRA0003	1	0	3	Black silt, high moisture. No VOC to accommodate sediment mass. Sample contained a large water component.															
CDEOU4-110412-HRA0306	2	3	6	Black silt. Sample required use of extruder to remove smear zone. No VOC to accommodate sediment mass.															
CDEOU4-110412-HRA0611	3	6	11	11 cm of sediment extruded from core tube. Compression calculation; 21 cm of core tube - 8.8 cm of empty lexan tube on top of core - 11 cm of extruded sediment = 1.2 cm of compression. No water loss observed from the bottom of the core tube.															
CDEOU4-110412-HRA1116	4	11	16	No picture collected.															
CDEOU4-110412-HRA1621	5	16	21	21 cm of sediment extruded from core tube. Compression calculation; 32.5 cm of core tube - 8.8 cm of empty lexan tube on top of core - 21 cm of extruded sediment = 2.7 cm of compression. No water loss observed from the bottom of the core tube.															
CDEOU4-110412-HRA2126	6	21	26	Strong petroleum smell. PID readings taken; 5.5 ppm in tube, 4.0 ppm in exclusion zone, 0.0 ppm outside tent.															
CDEOU4-110412-HRA2631	7	26	31	31 cm of sediment extruded from core tube. Compression calculation; 42.5 cm of core tube - 8.8 cm of empty lexan tube on top of core - 31 cm of extruded sediment = 2.7 cm of compression. Oil sheen observed at bottom of slice 7 - top of slice 8.															
CDEOU4-110412-HRA3136	8	31	36	Petroleum Smell															
CDEOU4-110412-HRA3641	9	36	41	41 cm of sediment extruded from core tube. Compression calculation; 53.5 cm of core tube - 8.8 cm of empty lexan tube on top of core - 41 cm of extruded sediment = 3.7 cm of compression. Sediment was very stiff and cohesive.															
CDEOU4-110412-HRA4146	10	41	46	Sediment becomes even more stiff and cohesive - sticking together.															
CDEOU4-110412-HRA4651	11	46	51	Sheen observed in sediment core, accompanied by strong odor.															
CDEOU4-110412-HRA5159	12	51	59	59 cm of sediment extruded from core tube. Compression calculation; 71 cm of core tube - 8.8 cm of empty lexan tube on top of core - 59 cm of extruded sediment = 3.2 cm of compression. Duplicate sample CDEOU4-110412-HRZ5159 (8 cm). Bottom of slice 12 contains silty sand.															
CDEOU4-110412-HRA5964	13	59	64	N/A															
CDEOU4-110412-HRA6474	14	64	74	MS/MSD (10 cm slice). 74 cm of sediment extruded from core tube. Compression calculation; 87 cm of core tube - 8.8 cm of empty lexan tube on top of core - 74 cm of extruded sediment = 4.2 cm of compression. Sediment is very cohesive and contains a larger sand component.															
CDEOU4-110412-HRA7479	15	74	79	Sediment is sandy with silt.															
CDEOU4-110412-HRA7984	16	79	84	Sediment is sandy with silt. A clay component makes the sediment core cohesive. Slices 15, 16, 17 and 18 have the same texture - sulfur smell in slice 16.															
CDEOU4-110412-HRA8489	17	84	89	Last 5 cm of segment.															
CDEOU4-110412-HRA8994	18	89	94	4.75 cm average for last slice - slanted segment.															
RAW Sediment Core Data																			
<table border="1"> <thead> <tr> <th>Parameter</th><th>Result Value</th></tr> </thead> <tbody> <tr> <td>Total weight of core and sediment (no water)</td><td>8.25 kg</td></tr> <tr> <td>Empty core tube</td><td>0.665 kg</td></tr> <tr> <td>Total sediment length</td><td>99 cm</td></tr> <tr> <td>Lexan core tube ID</td><td>8.5 cm</td></tr> <tr> <td>Volume (length * area)</td><td>5614.90875 cm³</td></tr> <tr> <td>Wet Bulk Density</td><td>1.4 g/ml</td></tr> </tbody> </table>						Parameter	Result Value	Total weight of core and sediment (no water)	8.25 kg	Empty core tube	0.665 kg	Total sediment length	99 cm	Lexan core tube ID	8.5 cm	Volume (length * area)	5614.90875 cm ³	Wet Bulk Density	1.4 g/ml
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Wet Bulk Density	1.4 g/ml																		

Total Core Length = 99.06 cm
Recovery = 42 in

94 cm of sediment core processed. Lost total of 5cm during extrusion and compression of core.

	High Resolution Core 2C				
	Collected April 11th, 2011 - Processed April 13th, 2011				
	Location #	Collection Time	Processing Time		
	2 by mouth of pond	2:00 PM	12:30 PM		
Sample Name	Slice #	Top (cm)	Bottom (cm)	Notes	
CDEOU4-110413-HRB0003	1	0	3	Sample was very wet, silty, and contained leaf debris, which were removed prior to sample homogenization. No smear zone - sample transferred cleanly into mixing bowl - no VOCs.	
CDEOU4-110413-HRB0306	2	3	6	6 cm of sediment extruded from core tube. Compression calculation; 12 cm of core tube - 4 cm of empty lexan tube on top of core - 6 cm of extruded sediment = 2 cm of compression. Very moist sample but holds shape - no smear zone.	
CDEOU4-110413-HRB0612	3	6	12	Starting 6 cm slices. VOCs collected from sample and smear zone removed.	
CDEOU4-110413-HRB1218	4	12	18	18 cm of sediment extruded from core tube. Compression calculation; 25.1 cm of core tube - 4 cm of empty lexan tube on top of core - 18 cm of extruded sediment = 3.1 cm of compression. Sample is silty and moist with a spongy texture - holds shape.	
CDEOU4-110413-HRB1824	5	18	24	Silt, moist - holding shape, no sand.	
CDEOU4-110413-HRB2430	6	24	30	30 cm of sediment extruded from core tube. Compression calculation; 38 cm of core tube - 4 cm of empty lexan tube on top of core - 30 cm of extruded sediment = 4 cm of compression. PID reading taken at 1:20 PM = 0.2 ppm inside tent (breathing air).	
CDEOU4-110413-HRB3038	7	30	38	Duplicate sample CDEOU4-110413-HRB3038 (8 cm).	
CDEOU4-110413-HRB3844	8	38	44	44 cm of sediment extruded from core tube. Compression calculation; 51.7 cm of core tube - 4 cm of empty lexan tube on top of core - 44 cm of extruded sediment = 3.7 cm of compression. Silt (no sand).	
CDEOU4-110413-HRB4450	9	44	50	Silt (no sand).	
CDEOU4-110413-HRB5056	10	50	56	56 cm of sediment extruded from core tube. Compression calculation; 64 cm of core tube - 4 cm of empty lexan tube on top of core - 56 cm of extruded sediment = 4 cm of compression. Silt (no sand).	
CDEOU4-110413-HRB5662	11	56	62	Silt (no sand).	
CDEOU4-110413-HRB6268	12	62	68	68 cm of sediment extruded from core tube. Compression calculation; 76.3 cm of core tube - 4 cm of empty lexan tube on top of core - 68 cm of extruded sediment = 4.3 cm of compression. Silt (no sand).	
CDEOU4-110413-HRB6874	13	68	74	N/A	
CDEOU4-110413-HRB7482	14	74	82	Start of 8 cm slices. 82 cm of sediment extruded from core tube. Compression calculation; 90.8 cm of core tube - 4 cm of empty lexan tube on top of core - 82 cm of extruded sediment = 4.8 cm of compression. Silt (no sand)	
CDEOU4-110413-HRB8290	15	82	90	90 cm of sediment extruded from core tube. Compression calculation; 98.5 cm of core tube - 4 cm of empty lexan tube on top of core - 90 cm of extruded sediment = 4.5 cm of compression. Bottom of slice 15 impacted by wood debris with spatula on the side of the core tube. Silty-Clay Material (no sand).	
CDEOU4-110413-HRB9098	16	90	98	Little sample mass available; wood debris still present on the side of the core tube in slice 16. Looks like one continuous piece was hit by the vibracore. Stiff clay surrounding wood that takes up a large portion of the sample	
CDEOU4-110413-HRB98108	17	98	108	MS/MSD (10 cm slice). Wood debris present at top of slice 17. Bottom of slice 17 was a silty-sand mixture.	
CDEOU4-110413-HRB108116	18	108	116	Final slice 6.7 cm (instead of 8 cm). Slice transitioned from silty-sand mixture to coarse sand near the bottom of the core.	
N/A	19	116	149	Did not process - stratified sand/silt at core tube bottom	
N/A	20	149	181	Did not process - stratified sand/silt at core tube bottom	

114.7 cm of sediment core processed. Lost total of 1.3 cm during extrusion and compression of core.

RAW Sediment Core Data	
Parameter	Result Value
Total weight of core and sediment (1 cm overlying water)	10.55 kg
Mass of 1 cm of water = volume/density = length*area/density	0.057 kg
Empty core tube	0.725 kg
Total sediment length	116 cm
Lexan core tube ID	8.5 cm
Volume (length * area)	6579.085 cm
Wet Bulk Density	1.48 g/ml

Total Core Length = 116.84 cm

Recovery = 69 in

High Resolution Core 2C				
Collected April 13th, 2011 - Processed April 14th, 2011				
Location #	Collection Time	Processing Time		
3 - moving from RM4.3 in Bound Brook near probe T231	11:09 AM	11:30 AM		
Sample Name	Slice #	Top (cm)	Bottom (cm)	Notes
CDEOU4-110414-HRC0003	1	0	3	Sample is composed of black silt. Organic root threads present at bottom of slice 1/top of slice 2 (average of 3 cm) - two 1 inch sticks removed from sample. VOCs collected - no
CDEOU4-110414-HRC0306	2	3	6	6 cm of sediment extruded from core tube. Compression Calculation; 10.8 cm of core tube - 2 cm of empty lexan tube on top of core - 6 cm of extruded sediment = 2.8 cm of
CDEOU4-110414-HRC0610	3	6	10	Top of slice 4 has higher moisture content - silty organic threads and two 1 inch sticks present in sample
CDEOU4-110414-HRC1014	4	10	14	14 cm of sediment extruded from core tube. Compression calculation; 20.4 cm of core tube - 2 cm of empty lexan tube on top of core - 14 cm of extruded sediment = 4.4 cm of
CDEOU4-110414-HRC1418	5	14	18	18 cm of sediment extruded from core tube. Compression calculation; 24.5 cm of core tube - 2 cm of empty lexan tube on top of core - 18 cm of extruded sediment = 4.5 cm of compression. Black silt and less moisture, with a small sheen on the sample surface. Sample contained organic root threads and a stick. A PID reading was taken of the sample; PID =
CDEOU4-110414-HRC1826	6	18	26	Duplicate sample CDEOU4-110414-HRZ1826 (8cm). Black silt with moisture and three sticks present in the sample. Some of the sample material was dripping down the sides of the
CDEOU4-110414-HRC2630	7	26	30	30 cm of sediment extruded from core tube. Compression calculation; 37.4 cm of core tube - 2 cm of empty lexan tube on top of core - 30 cm of extruded sediment = 5.4 cm of
CDEOU4-110414-HRC3034	8	30	34	Top of slice 8 had a strong smell - no reading from the PID (outside Oppm). Red chips present within silt; sample contains organic threads and sticks throughout.
CDEOU4-110414-HRC3438	9	34	38	38 cm of sediment extruded from core tube. Compression calculation; 46.7 cm of core tube - 2 cm of empty lexan tube on top of core - 38 cm of extruded sediment = 6.7 cm of compression. Color change in sample observed at top of slice 9; black around core tube (1/2 inch) and brown in the center - organic threads still present.
CDEOU4-110414-HRC3842	10	38	42	42 cm of sediment extruded from core tube. Compression calculation; 51 cm of core tube - 2 cm of empty lexan tube on top of core - 42 cm of extruded sediment = 7 cm of
CDEOU4-110414-HRC4246	11	42	46	46 cm of sediment extruded from core tube. Compression calculation; 55.5 cm of core tube - 2 cm of empty lexan tube on top of core - 46 cm of extruded sediment = 7.5 cm of
CDEOU4-110414-HRC4650	12	46	50	50 cm of sediment extruded from core tube. Compression calculation; 59.8 cm of core tube - 2 cm of empty lexan tube on top of core - 50 cm of extruded sediment = 7.8 cm of compression. Sample comprised of very soft silt. Top of Slice 12 contains several leaves. The Bottom of Slice 12 was occupied by a stem (thick and green).
CDEOU4-110414-HRC5054	13	50	54	54 cm of sediment extruded from core tube. Compression calculation; 64.2 cm of core tube - 2 cm of empty lexan tube on top of core - 54 cm of extruded sediment = 8.2 cm of compression. Color changed from blackish brown to reddish brown through slice 13. Sample contains small twigs.
CDEOU4-110414-HRC5458	14	54	62	MS/MSD (8cm slice).
CDEOU4-110414-HRC5866	15	62	66	Soft brown silt.
CDEOU4-110414-HRC6669	16	66	69	3 cm slice only. Sample contains huge pieces of wood; minimum sample mass available.

RAW Sediment Core Data	
Parameter	Result Value
Total weight of core and sediment (no water)	5.995 kg
Empty core tube	0.485 kg
Total sediment length	78 cm
Lexan core tube ID	8.5 cm
Volume (length * area)	4423.868 cm ³
Wet Bulk Density	1.25 g/ml

Total Core Length = 78.74 cm
Recovery = 69 cm

69 cm of sediment core processed. Lost total of 9 cm during extrusion and compression of core.